

COMBINED DECLARATION AND POWER OF ATTORNEY

(ORIGINAL, DESIGN, NATIONAL STAGE OF PCT OR CIP APPLICATION)

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name, I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: PROCESS FOR HEAT TREATING CERAMICS AND ARTICLES OF MANUFACTURE MADE THEREBY

				REG	ULAR OR DESIGN AP	PLICATION		
	(a) (b)	[X] []		hed hereto. ed on as	s Application Serial No.	and v	vas amended or	າ
				PCT FILED AP	PLICATION ENTERING	G NATIONAL S	TAGE	
- L	(c)	[]		scribed and claimed	in International Applica -	ation No	_ filed on	and a
H 12 1111			ĄCI	KNOWLEDGMENT	OF REVIEW OF PAPE	RS AND DUTY	OF CANDOR	
it wast that I Hear	I her inclu	eby sta	ate that I le claims	have reviewed and , as amended by an	understand the content by amendment referred	s of the above i to above.	dentified specifi	cation,
eek :	l ack	nowled ordance	dge the de with Tit	duty to disclose infor le 37, Code of Fede	mation which is material Regulations. §1.56(ll to the examina a).	ation of this app	lication in
	[] in c	complian	ce with this duty the	re is attached an inform	ation disclosure	statement. 37	CFR 1.97.
H					PRIORITY CLAIM	ī		
	for p	atent o	r invento	or's certificate listed	nder Title 35, United St below and have also ide filing date before that of	entified below as	ny foreign applic	cation for
					(complete (d) or (e))		
	(d)	[X]	no such	applications have t	peen filed.			
	(e)	[]	such ap	plications have bee	n filed as follows:			•
			EAR		PPLICATION(S), IF AN' PR DESIGN) PRIOR TO			
	-	Cour	ntry	Application No.	Date of Filing (day, month, year)	Date of iss (day, month,		ty Claimed
			ALL	FOREIGN APPLICATION (6 MONTHS FO	ATION(S), IF ANY FILE OR DESIGN) PRIOR TO	D MORE THAN SAID APPLICA	I 12 MONTHS ATION	
		Cour	ntry	Application No.	Date of Filing (day, month, year)	Date of Iss (day, month,		y Claimed





CONTINUATION-IN-PART

(complete this part only if this is a continuation-in-part application)

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Registrations, §1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

	09/393,004	September 9, 19	99 Pending	
	(Application Serial No	.) (Filing Date)	(Status)	(patented, pending, abandoned)
	(Application Serial No	.) (Filing Date)	(Status)	(patented, pending, abandoned)
		POWER	OF ATTORNEY	
	As a named inventor, and transact all busine (List name and registra	ess in the Patent and Trader	ng attorney(s) and/or ag mark Office connected t	ent(s) to prosecute this application herewith.
II. marth 11 11 Jees Jees 11 11 th 11 11 11	Larry Stanis James Steph John I Thoma	J. Prizzi R. Meenan lav Antolin s G. Porcelli en T. Belsheim M. Halan as W. Cole as Lizzi	Registration No.	33,423 34,979 33,757 28,688 35,534 28,290
: :::	SEND CORRE	ESPONDENCE TO:	DIRECT TELEPHON	IE CALLS TO:
	John J. Pr Kennamet P. O. Box Latrobe, P	al inc. 231	John J. Prizzi (724) 539-5331	
	the knowledge that will both, under Section 10	nd belief are believed to be to full false statements and the	true; and further that the like so made are punisi States Code and that su	e true and that all statements ese statements were made with nable by fine or imprisonment, or ch willful false statements may
		t inventor <u>Pankaj K. Me</u> l		
	Inventor's signature	antin terman N	Mehrtra	
	Date 5/9/2000	Country of	f CitizenshipU.S	.A
	Residence	Greensburg, Pennsylvania	15601	
		23 Peters Road, Greensbu		
	Full name of second joi	nt inventor, if any <u>Mark A.</u>	Garman	
	Date	Country of	Citizenship U.S.	Α
i	Residence	Johnstown, Pennsylvania	15905	
ł	Post Office Address	306 Shady Oak Drive, John	nstown, PA 15905	

- [] Signature by administrator(trix), executor(trix) or legal representative for deceased or incapacitated inventor. Number of pages added ___.
- [] Signature for inventor who refuses to sign or cannot be reached by person authorized under 35 CFR 1.47. Number of pages added ___.





Date	Country of Citizenship U.S.A.
Residence	Greensburg, Pennsylvania 15601
Post Office Address _	3107 Attleboro Place, Greensburg, PA 15601
Full name of fourth join	nt inventor, if any Frank B. Battaglia
Inventor's signature _	
Date	Country of Citizenship U.S.A.
Residence	Latrobe, Pennsylvania 15650
Post Office Address _	R. D. 1, Box 366D, Latrobe, PA 15650
Full name of fifth joint	inventor, if any
	Country of Citizenship U.S.A.
Full name of sixth joins	t inventor, if any
Inventor's signature _	
Date	Country of Citizenship U.S.A.
Residence	
•	
Full name of seventh i	oint inventor, if any
Inventor's signature	
_	Country of CitizenshipU.S.A.





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p li	(c)	[]		cribed and cla		Internationa	al Applicat	tion No	file	ed on	and as	
Hand Tark			ACH	NOWLEDGM	ENT OF	REVIEW	OF PAPE	RS AND	DUTY OF	CANDOR		
Tank thur Beer	l he	I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.										
FR.	l ac	I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations. §1.56(a).										
::b		[] In c	complianc	e with this dut	y there i	s attached a	an informa	ation disc	losure stat	ement. 37 C	FR 1.97.	
H 1144 1						PRIORIT	Y CLAIM					
THE PERSON NAMED IN	for	patent o	r invento	n priority bene 's certificate li certificate havi	sted bel	ow and have	e also ide	ntified be	low any fo	reign applica	ation for	
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	(d)	[X]	no such	applications h	ave bee	n filed.						
	(e)	[]	such ap	olications have	e been fi	ied as follov	vs:					
			EARL	IEST FOREIG (6 MONTH	S FOR I	LICATION(S DESIGN) PF	S), IF ANY RIOR TO	FILED V SAID AP	VITHIN 12 PLICATIO	MONTHS N		
	_	Cou	ntry	Application	No.	Date of F (day, month			of Issue onth, year) Priority	Claimed	
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CONTINUATION-IN-PART

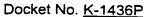
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		POWER	OF ATTORNEY						
	and transact all business in the (List name and registration notes)	he Patent and Traden	g attorney(s) and/ nark Office connec	or agent(s) to prosecute this application cted therewith.					
ļ. r h	John J. Prizz	;i	Registration	n No. 29,970					
5:5	Larry R. Mee			n No. 33,423					
11	Stanislav An			n No. 34,979					
may stay gray,	James G. Po			n No. 33,757					
11,0 3°F1	Stephen T. E John M. Hala			n No. 28,688					
L.	Thomas W. (n No. 35,534 n No. 28,290					
₽et Fet	Thomas Lizz			No. 35,252					
## ##	SEND CORRESPON	IDENCE TO:	DIRECT TELEF	PHONE CALLS TO:					
Hart Hans	John J. Prizzi		John J. Priz	77					
	Kennametal Inc.		(724) 539-5						
Į.	P. O. Box 231								
111	Latrobe, PA 156	50							
	I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.								
	Full name of sole or first inver	ntor <u>Pankaj K. Me</u> t	rotra						
	Inventor's signature		· · · · · · · · · · · · · · · · · · ·						
	Date			U.S.A.					
		nsburg, Pennsylvania							
	Post Office Address 23 Pe	eters Road, Greensbu	rg, PA 15601						
	Full name of second joint inve	ntor, jf any <u>Mark A.</u>	Garman						
		ark a Har	man						
,*	Date <u>5/9/00</u>	Country of	Citizenship	U.S.A.					
	Residence Johns	stown, Pennsylvania	15905						
	Post Office Address 306 S	hady Oak Drive, John	nstown, PA 15905	5					

- [X] Signature for third and subsequent joint inventors. Number of pages added 1.
- [] Signature by administrator(trix), executor(trix) or legal representative for deceased or incapacitated inventor. Number of pages added ____.
- [] Signature for inventor who refuses to sign or cannot be reached by person authorized under 35 CFR 1.47. Number of pages added ____.









Date	Country of Citizenship U.S.A.
Residence	Greensburg, Pennsylvania 15601
Post Office Address _	3107 Attleboro Place, Greensburg, PA 15601
Full name of fourth joi	nt inventor, if any <u>Frank B. Battaglia</u>
	Country of Citizenship U.S.A.
	Latrobe, Pennsylvania 15650
	R. D. 1, Box 366D, Latrobe, PA 15650
Full name of fifth joint	inventor, if any
	Country of Citizenship U.S.A.
Full name of sixth ioint	inventor if any
	inventor, if any
	Country of Citizenship
	Country of Citizenship U.S.A.
FUST Office Address	
.	
	oint inventor, if any
Date	Country of Citizenship U.S.A.

(a)





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REGUL	AR OR	DESIGN	APPI	ICATI	ON

(b)	[]	was file	ed on	_ as Application Serial No.	and was am	ended on
			PCT FILED	APPLICATION ENTERIN	G NATIONAL STAGE	
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l her inclu	eby sta ding th	ate that I ne claims	have reviewed a s, as amended by	and understand the content of any amendment referred	ts of the above identifie to above.	ed specification,
l ack acco	nowle	dge the d e with Tit	duty to disclose in le 37, Code of Fe	nformation which is material Regulations. §1.56	al to the examination of (a).	this application in
[] in c	complian	ce with this duty	there is attached an inform	nation disclosure staten	nent. 37 CFR 1.97.
				PRIORITY CLAIM	м	
for pa	atent o	or invento	or's certificate list	s under Title 35, United Si ed below and have also id g a filing date before that o	entified below any forei	on application for
				(complete (d) or (e	·))	
(d)	[X]	no such	applications hav	ve been filed.		
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		EAR	LIEST FOREIGN (6 MONTHS	I APPLICATION(S), IF AN FOR DESIGN) PRIOR TO	Y FILED WITHIN 12 MO SAID APPLICATION	ONTHS
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Date _____

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As a named inventor, I here and transact all business in (List name and registration)	the Patent and Trader	g attorney(s) and/onark Office connec	or agent(s) to prosecute this application therewith.	
John J. Priz Larry R. Me Stanislav Ar James G. P Stephen T. John M. Hai Thomas W. Thomas Liz	enan ntolin orcelli Belsheim lan Cole	Registration No. 29,970 Registration No. 33,423 Registration No. 34,979 Registration No. 33,757 Registration No. 28,688 Registration No. 35,534 Registration No. 28,290 Registration No. 35,252		
SEND CORRESPO	NDENCE TO:		PHONE CALLS TO:	
Kennametal Inc. P. O. Box 231 Latrobe, PA 156	•	John J. Priz: (724) 539-5:		
made on information and bel the knowledge that willful fal:	ief are believed to be see statements and the Title 18 of the United Sapplication or any pate	true; and further that like so made are postates Code and the lissued thereon.	ge are true and that all statements at these statements were made with punishable by fine or imprisonment, or at such willful false statements may	
nventor's signature				
Date	Country or	Citizenship	U.S.A.	
Residence Gree				
Post Office Address 23 P	eters Road, Greensbu	rg, PA 15601		
full name of second joint inve				
nventor's signature				

Country of Citizenship U.S.A.





[X]	Signature for third and subsequent joint inventors.
	Number of pages added _1

- [] Signature by administrator(trix), executor(trix) or legal representative for deceased or incapacitated inventor. Number of pages added ____.
- Signature for inventor who refuses to sign or cannot be reached by person authorized under 35 CFR 1.47. Number of pages added ___.





Full name of third joint inventor, if any	Chuck E. Lipniskis			
Inventor's signature Church	Lipnishin			
		U.S.A.		
Residence Greensburg P	ennsylvania 15601			
Post Office Address 3107 Attleboro	Place, Greensburg, PA	15601		
Full name of fourth joint inventor, if any	Frank B. Battaglia			
Inventor's signature				
Date	Country of Citizenship	U.S.A.		
Residence <u>Latrobe, Penns</u>	sylvania 15650			
Post Office Address R. D. 1, Box 36	66D, Latrobe, PA 15650			
Full name of fifth joint inventor, if any _				
Inventor's signature				
Date	Country of Citizenship	U.S.A.		
Residence				
Post Office Address				
Full name of sixth joint inventor, if any _				
Inventor's signature				
		U.S.A.		
Residence				
Post Office Address				
Full name of seventh joint inventor, if ar	ny			
Inventor's signature				
Date		U.S.A.		
Residence				
Post Office Address				

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den den	[] In c	omplian	ce with this duty th	nere is attached an infon	mation dis	closure staten	nent. 37 CFR 1.	97.
d man					PRIORITY CLAI	IM			
I hereby claim foreign priority benefits under Title 35, United States Code §119 of any foreign application(s for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed (complete (d) or (e))									
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Larry R. Me	enan	Registration	No. 33,423
Stanislav Ar James G. P			1 No. 34,979
Stephen T. I			No. 33,757
John M. Hal		Registration	No. 28,688
Thomas W.		Registration	i No. 33,334 i No. 28 290
Thomas Lizz	zi	Registration	
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John J. Prizzi		John J. Priz	
Kennametal Inc.		(724) 539-53	
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Latrobe, PA 156	550		
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	ntor <u>Pankaj K. Men</u>	rotra	
nventor's signature Date	_		
		Citizenship	Ü.S.A.
	nsburg, Pennsylvania		
Ost Office Address23 Pt	eters Road, Greensbui	g, PA 15601	
rull name of second joint inve	ntor, if any <u>Mark A. (</u>	Sarman	
nventor's signature			
Date	Country of	Citizenship	U.S.A.
Residence Johns	stown, Pennsylvania, 1	5905	

Post Office Address 306 Shady Oak Drive, Johnstown, PA 15905





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Inventor's signature _	
Date	Country of Citizenship U.S.A.
Residence	Greensburg, Pennsylvania 15601
Post Office Address	3107 Attleboro Place, Greensburg, PA 15601
	` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` `
Full name of fourth join	it inventor, if any Frank B. Battaglia.
Inventor's signature	Freh B Fillinger
Date 5/14/00	Country of Citizenski
Residence	Country of Citizenship U.S.A. Latrobe, Pennsylvania, 15650
	R. D. 1, Box 366D, Latrobe, PA 15650
Full name of fifth inint is	
inventorie signatura	ventor, if any
Deta	
Date	Country of Citizenship U.S.A.
Residence	
Post Office Address	
_	
Full name of sixth joint in	nventor, if any
inventor's signature	
Date	Country of Citizenship U.S.A.
Residence	
Post Office Address	
Full name of seventh joir	it inventor, if any
nventor's signature	
Date	Country of Citizenship U.S.A.
Residence	U.S.A.
Post Office Address	